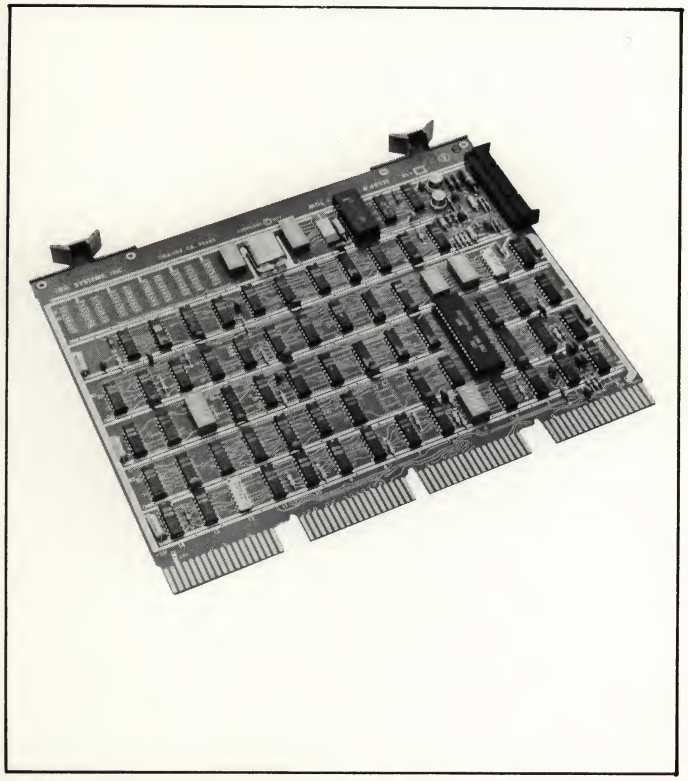
MDB

MDL-11W ASYNCHRONOUS SERIAL LINE ADAPTER & CLOCK for use with PDP*-11 Computers



MDB Asynchronous Serial Line Adapter with Line Frequency Clock for PDP-11* Computers

- Single asynchronous serial line interface
- Full duplex or half duplex operation
- 16 standard baud rates from 50 to 19.2 K baud
- EIA RS232C and 20ma active current loop interface
- Compatible with DEC operating and diagnostic software
- Incorporates the DEC DL11-A, B, C, and D features on a single board; switch selectable convenience
- Separate transmitter and receiver rates; switch selectable convenience
- Standard vectored interrupts; switch selectable convenience
- Standard DEC command and status register and data buffer mechanization
- Pin-for-pin compatible with DEC DL-11W cable assemblies
- Line frequency clock
- External clock frequency provision

The MDB Systems MDL-11W combines on a single board all the operational features of the DEC DL11-A, B, C, D modules.

Selection of any one of the four operational modes is easily accomplished through P-C mounted switches.

Additional standard MDL-11W functions include switch selectable address, interrupt vector, switch selectable transmitter and receiver clock sources and baud rates.

The clock rates provided by the MDL-11W are dependent upon the frequency and the accuracy of the line frequency. A 60 Hz rate will produce a 16⅔ msec rate and a 50 Hz rate will produce a 20 msec rate. A provision incorporated in the MDL-11W design permits the use of an external clock rate in place of the line frequency rates.

A 20ma active current loop interface to teletype-writer terminal operation is a standard feature of the MDL-11W as well as EIA RS232C interface drivers and receivers for local or remote terminals.

Receiver circuits perform serial-to-parallel conversion per user selected character length (P-C mounted switches) and the transmitter circuit performs parallel-to-serial conversion using standard bit-serial data format. The MDB MDL-11W module provides standard vector interrupt operation with separate interrupt channels for receiver and transmitter functions. Even though the channels are independent, the MDL-11W will assign the receiver function priority in the event of simultaneous interrupts.

As with the MDL-11 module, the MDL-11W provides the +5v to +12v conversion that is necessary to operate the baud rate generator and EIA drivers.

The board comes with a 25 foot EIA or a 2 foot current loop cable with mating connectors furnished for connection to DEC terminals.

ELECTRICAL REQUIREMENTS:

- +5V at 0.8A; −15V at .015A

PHYSICAL:

- Occupies one quad slot of standard system unit

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Printed in USA P/DL11W/10M/4-79

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